



AUG 04 2003

SHEET 1 OF 7

| FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION | | DOCKET NUMBER MAT 3D7 | | APPLICATION NUMBER 09/851,539 | | |
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| | | APPLICANT William Willett | | | | |
| | | FILING DATE May 7, 2001 | | GROUP ART UNIT 3712 | | |
| U.S. PATENT DOCUMENTS | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FIL. DATE IF APPROP. |
| D.S. | 248,115 | 10/11/1881 | Stearns, Jr. | | | RECEIVED AUG 05 2003 TECHNOLOGY CENTER R3700 |
| | 3,298,130 | 1/17/67 | Ryan | | | |
| | 3,767,901 | 10/23/73 | Black et al. | | | |
| | 3,912,694 | 10/14/75 | Chiappe et al. | | | |
| | 4,107,462 | 8/15/78 | Asija | | | |
| | 4,139,968 | 2/20/79 | Milner | | | |
| | 4,177,589 | 12/11/79 | Villa | | | |
| | 4,207,704 | 6/17/80 | Akiyama | | | |
| | 4,231,184 | 11/4/80 | Corris et al. | | | |
| D.S. | 4,245,430 | 1/20/81 | Hoyt | | | |
| D.S. | 4,318,245 | 3/9/82 | Stowell et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | |
| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES NO |
| D.S. | WO 87/07522 | 12/17/87 | WIPO | | | XX |
| D.S. | WO 96/15837 | 5/30/96 | WIPO | | | XX |
| OTHER DOCUMENTS | | | | | | |
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| EXAMINER | D. Schul | | DATE CONSIDERED | 3/29/04 | | |



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| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | | |
| DG | 4,516,950 | 5/14/85 | Berman et al. | | | | |
| | 4,565,487 | 1/21/86 | Kroczyński | | | | |
| | 4,579,540 | 4/1/86 | Ho | | | | |
| TP | 4,659,919 | 4/21/87 | Price | | | | |
| DG | 4,660,033 | 4/21/87 | Brandt | | | | |
| RECEIVED AUG 05 2003 TECHNOLOGY CENTER R3200 | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| EXAMINER | | | | | | DATE CONSIDERED | |
| D. G. Willett | | | | | | 3/29/04 | |



SHEET 3 OF 7

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| U.S. PATENT DOCUMENTS | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FIL. DATE IF APPROP. |
| D.G. | 4,696,653 | 9/29/87 | McKeefery | — | — | |
| | 4,729,563 | 3/8/88 | Yokoi | — | — | |
| | 4,767,374 | 8/30/88 | Yang | — | — | |
| | 4,809,335 | 2/28/89 | Rumsey | — | TECHNOLOGY | AUG 05 2003 |
| | 4,825,136 | 4/25/89 | Farhat | — | — | RECEIVED CENTER R3700 |
| | 4,846,693 | 7/11/89 | Baer | — | — | |
| | 4,850,930 | 7/25/89 | Sato et al. | — | — | |
| D.G. | 4,855,725 | 8/8/89 | Fernandez | — | — | |
| D.G. | 4,864,607 | 9/5/89 | Mitamura et al. | — | — | |
| FOREIGN PATENT DOCUMENTS | | | | | | |
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| EXAMINER | D. Schol | | DATE CONSIDERED | 3/29/04 | | |



SHEET 4 OF 7

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| U.S. PATENT DOCUMENTS | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FIL. DATE IF APPROP. |
| D.G. | 5,011,449 | 4/30/91 | Handy et al. | — | RECEIVED TECHNOLOGY CENTER R3700 AUG 05 2003 | |
| | 5,029,214 | 7/2/91 | Hollander | — | | |
| | 5,096,451 | 3/17/92 | Smith et al. | — | | |
| | 5,100,138 | 3/31/92 | Wilde | — | | |
| | 5,141,464 | 8/25/92 | Stern et al. | — | | |
| | 5,142,803 | 9/1/92 | Lang | — | | |
| | 5,158,492 | 10/27/92 | Rudell et al. | — | | |
| | 5,195,920 | 3/23/93 | Collier | — | | |
| D.G. | 5,213,510 | 5/25/93 | Freeman | — | | |
| D.G. | 5,236,385 | 8/17/93 | May | — | | |
| FOREIGN PATENT DOCUMENTS | | | | | | |
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| U.S. PATENT DOCUMENTS | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FIL. DATE IF APPROP. |
| DG | 5,239,665 | 8/24/93 | Tsuchiya | | | |
| | 5,270,480 | 12/14/93 | Hikawa | | | |
| | 5,280,265 | 1/18/94 | Kramer et al. | | | |
| | 5,413,355 | 5/9/95 | Gonzalez | | | |
| | 5,413,516 | 5/9/95 | Lam | | | |
| | 5,468,172 | 11/21/95 | Basile | | | |
| | 5,474,484 | 12/12/95 | Lemelle | | | |
| DG | 5,478,240 | 12/26/95 | Cogliano | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | |
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| EXAMINER | D. Enkhol | | DATE CONSIDERED | 3/29/04 | | |



SHEET 6 OF 7

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| DG | 5,495,557 | 2/27/96 | Hyman et al. | | | |
| | 5,493,185 | 2/20/96 | Mohr et al. | | | |
| | 5,493,281 | 2/20/96 | Owens | | | |
| | 5,501,627 | 3/26/96 | Ekstein | | | |
| | 5,534,888 | 7/9/96 | Lebby et al. | | | |
| AV | 5,636,994 | 6/10/97 | Tong | | | |
| DG | 5,648,999 | 7/15/97 | Easterling et al. | | | |

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| D.G. | 5,655,945 | 8/12/97 | Jani | — | — | | |
| | 5,656,907 | 8/12/97 | Chainani et al. | — | — | | |
| | 5,682,196 | 10/28/97 | Freeman | — | — | | |
| | 5,855,483 | 1/5/99 | Collins et al. | — | — | | |
| | 5,873,765 | 2/23/99 | Rifkin et al. | — | — | | |
| | 6,048,209 | 4/11/00 | Bailey | — | — | | |
| W. | 6,159,101 | 12/12/00 | Simpson | — | — | | |
| D.F. | 6,435,936 | 8/20/02 | Rehkemper et al. | — | — | | |
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| EXAMINER | D. Enkhol | | DATE CONSIDERED | 3/29/04 | | | |